

FIGURE 1A**CHIR 12.12 light chain:****leader:****MALPAQLLGLLMLWVSGSSG****variable:****DIVMTQSPLSLTVPGEPAISICRSSQSLLYSENGYNYLDWYLOKPGQSPQVLISLGS
NRASGVDPDRFSGSGSGTDFTLKISRVEAEDVGVYYCMQARQTPFTFGPGTKVDIR****constant:****RTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVT
EQDSKDSSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC****FIGURE 1B****CHIR-12.12 heavy chain:****leader:****MEFGLSWVFLVAAILRGVQC****variable:****QVQLVESGGGVVQPGGRSLRLSCAASGFTFSSYGMHWVRQAPGKGLWVAIVISYEEN
RYHADSVKGRFTISRDNISKITLYLQMNSLRTEDTAVYYCARDGGIAAPGPDYWGQGT
LVTVSS****constant:****ASTKGPSVFPLAPASKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVL
QSSGLYSLSSVTVPSSSLGTQTYICNVNHKPSNTKVDKRVEPKSCDKTHTCPPCPA
PELLGGPSVFLFPPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAK
TKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPRE
PQVYTLPPSRREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDG
SFFLYSKLTVDKSRWQQGNVFSCSVMEALHNHYTQKSLSLSPGK****alternative constant region:****ASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVL
QSSGLYSLSSVTVPSSSLGTQTYICNVNHKPSNTKVDKRVEPKSCDKTHTCPPCPA
PELLGGPSVFLFPPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAK
TKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPRE
PQVYTLPPSRREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDG
SFFLYSKLTVDKSRWQQGNVFSCSVMEALHNHYTQKSLSLSPGK**

FIGURE 3A**CHIR-5.9 light chain:****leader:****MALLAQLLGLLMLWVPGSSG****variable:****AIVMTQPPLSSPVTLGQPASISCRSSQSLVHSDGNTYLNWLQQRFGQPRLLIYKFF
RRLSGVPDRFSGSGAGTDFTLKISRVEAEDVGVYYCMQVTQFPHTFGQGTRLEIK****constant:****RTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVT
EQDSKSTYSLSSTLTLSKADYEKHKVYACEVTHQQLSSPVTKSFNRGEC****FIGURE 3B****CHIR-5.9 heavy chain:****leader:****MGSTAILALLLAVLQGVCA****variable:****EVQLVQSGAEVKKRPGESLKISCKGSGYSFTSYWIGWVRQMPGKGLEWNGIITPGDSG
TRYSPSPQGGVTISADKSIETAYLQWSSSLKASDTAMYYCARGTAAGRDRYVYYGMDV
WGQGTTVTVSS****constant:****ASTKGPSVFPLAPASKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVL
QSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKRVEPKSCDKTHTCPPCPA
PELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAK
TKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTIISKAKGQPRE
PQVYTLPPSRREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPFVLDSG
SFFLYSKLTVDKSRWQQGNVFSQSVMHREALHNYTQKSLSLSPGK****alternative constant region:****ASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVL
QSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKRVEPKSCDKTHTCPPCPA
PELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAK
TKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTIISKAKGQPRE
PQVYTLPPSRREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPFVLDSG
SFFLYSKLTVDKSRWQQGNVFSQSVMHREALHNYTQKSLSLSPGK**

FIGURE 4A

Coding sequence for short isoform of human CD40:

```

1  atgggttggc tgcctatgca gtgcgtctct tggggctgct tggtagccgc tgtccatcca
61  gaaccaccca ctgcatgcag agaaaaacag tacctaataa acagtcagtg ctgttcttgc
121  tgcagccag gacagaaact ggtgagtgac tgcacagagt tcactgaaac ggaatgccit
181  ccttggggtg aaagcguaat cctagacaco tggaaacag agacacactg ccaccagcac
241  aaatactgag accccaacct agggcttcgg gtccagcaga agggcacctc agaaacagac
301  accatctgca cctgtgaaga aggcctggac tglacgagtg aggcctgta cagctctctc
361  ctgcaccgcl calgcicgcc oggolltggg gtonagcaga ttgtacagg ggtttctgat
421  accatctgag agccctgccc agtcggcttc tctccaaag tgcacatgc ttccgaaaaa
481  tgtcacccct ggacaaggic ccaggaicg gctgagagcc ctggtagtga tccccatcat
541  ctccgggato ctgtttgcaa tctcttggg gctggtcttt atcaaaaagg tggcctagaa
601  gccaaaccaat aa

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FIGURE 4B

Encoded short isoform of human CD40:

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1  mvrtpiqcvi wgciltavhp eppiacrokq ylnsqccsl oqpgqklvsd ctefteteol
61  pcgeselfdt wnrothchqh kyedpnlgir vqkgtseid tlcceegwh ctseacescv
121  lhrscspgfg vkqiatgvsd ticepcpvgf fsnvsaafek chpwlrpga acspggdphh
181  lrdpvchplg aglyqkygqe anq

```

FIGURE 4C

Coding sequence for long isoform of human CD40:

```

1 atgggtcgtc tgcctctgca gtgcgtcctc tggggctgct tgctgaccgc tgcctatcca
61 gaaacaccca ctgoatgong agaaaaaacg tacctaataa aaagtcaagt cgttclcttg
121 tgcagagcag gacagaaact ggtgagtgao tgcacagagt tcaotgaaao ggaatgocli
181 ccttgcgggtg aaagcgaalt cctagacacc tggacagag agacacacly ccaccagcac
241 aaaluolgcg aocccancccl agggottogg gtoagonga agggacoto agaaacagao
301 accatctgca cctgtgaaga aggtggcac tgtacgagt aggcclgtga gagclgtgic
361 ctgcaccgct calgtctgcc cggcillggg gtoaagcaga ttgctacagg ggtttctgat
421 acoatotgog agcoctgooo agtoggolto lictoualg tgoalcigo ttlogaaaaa
481 tgtcaccctt ggacaagctg tgagacaaa gacciggtg tgcacaggc aggcacaaac
541 aagacigatg ttgtctgtgg tcccaggat cggctgagag ccttgggtgt gatcccaic
601 alctlogggg lcolglllyc catocclctg gtgtgtgtot ttatcaaaaa ggtggccaag
661 aagccaacca alaaggcccc ccacccaag caggaaacccc aggagatcaa ttccccgac
721 gatcttctg gctcaacac tgctgtcca gtgcaggaga cttacatgg atgccaaccy
781 gtoacocagg aggatggaoa agagagtcgo alclougtgc agguagagaa glga

```

FIGURE 4D

Encoded long isoform of human CD40:

```

1 mvrplqovl wgolltavhp epptaerekq ylinsqcesl oqpgqklvad clefetecl
61 pcgesefldt wnrethchqh kydcpnlgf vqkgtseld tictceegwh ctseacescv
121 lhrscspgfg vkqiatgvsd ticpcpvgl fsnvssafek chpwtscoth dlvvqqagtn
181 ktdvvogpqr rralvvipi ifgilfuill vlvfikkvak kptnkaphpk qepqeinfpd
241 dlpgsntaap vqetlhgcqp viqedgkesr isvqera

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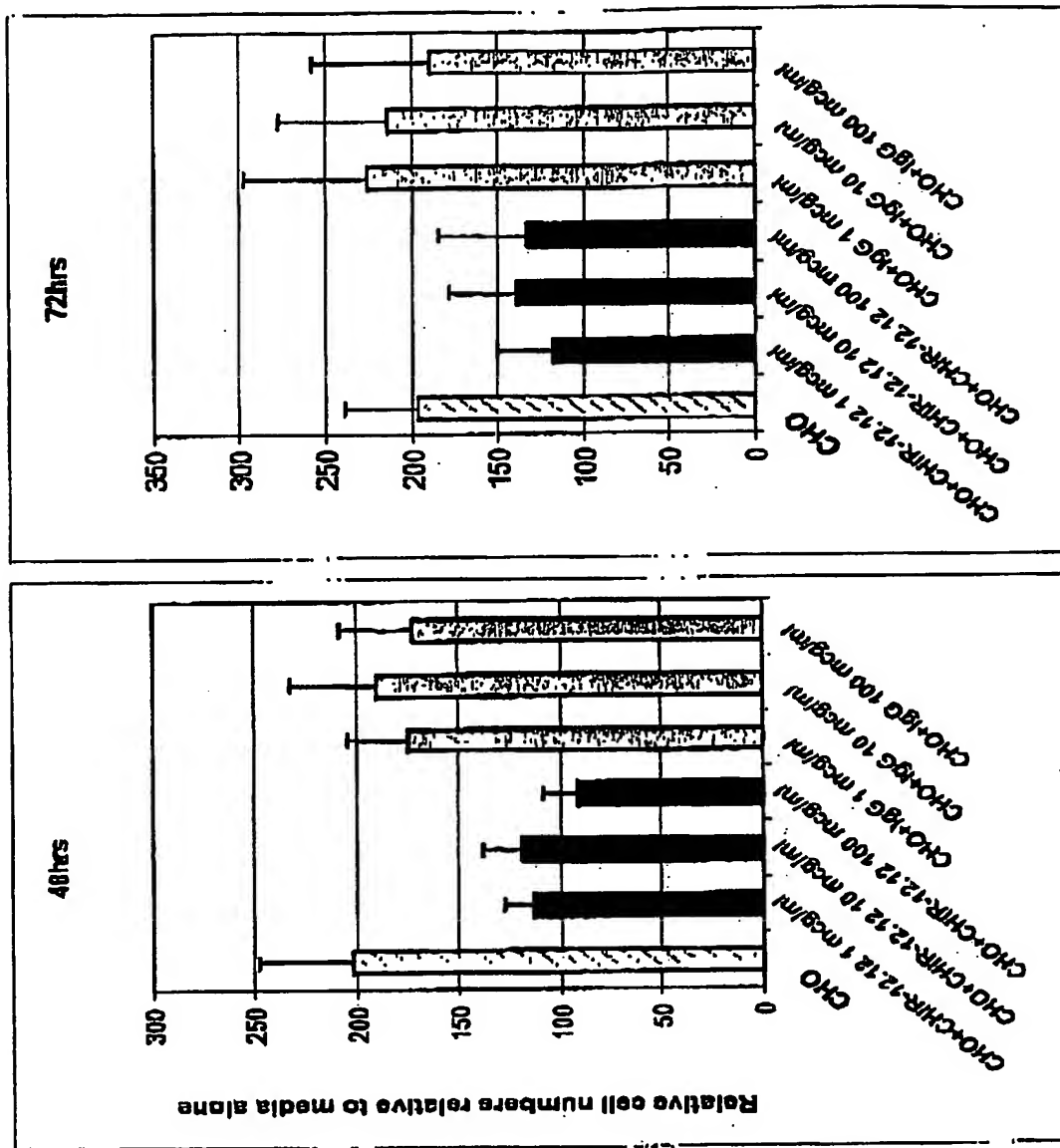


FIGURE 5B

FIGURE 5A

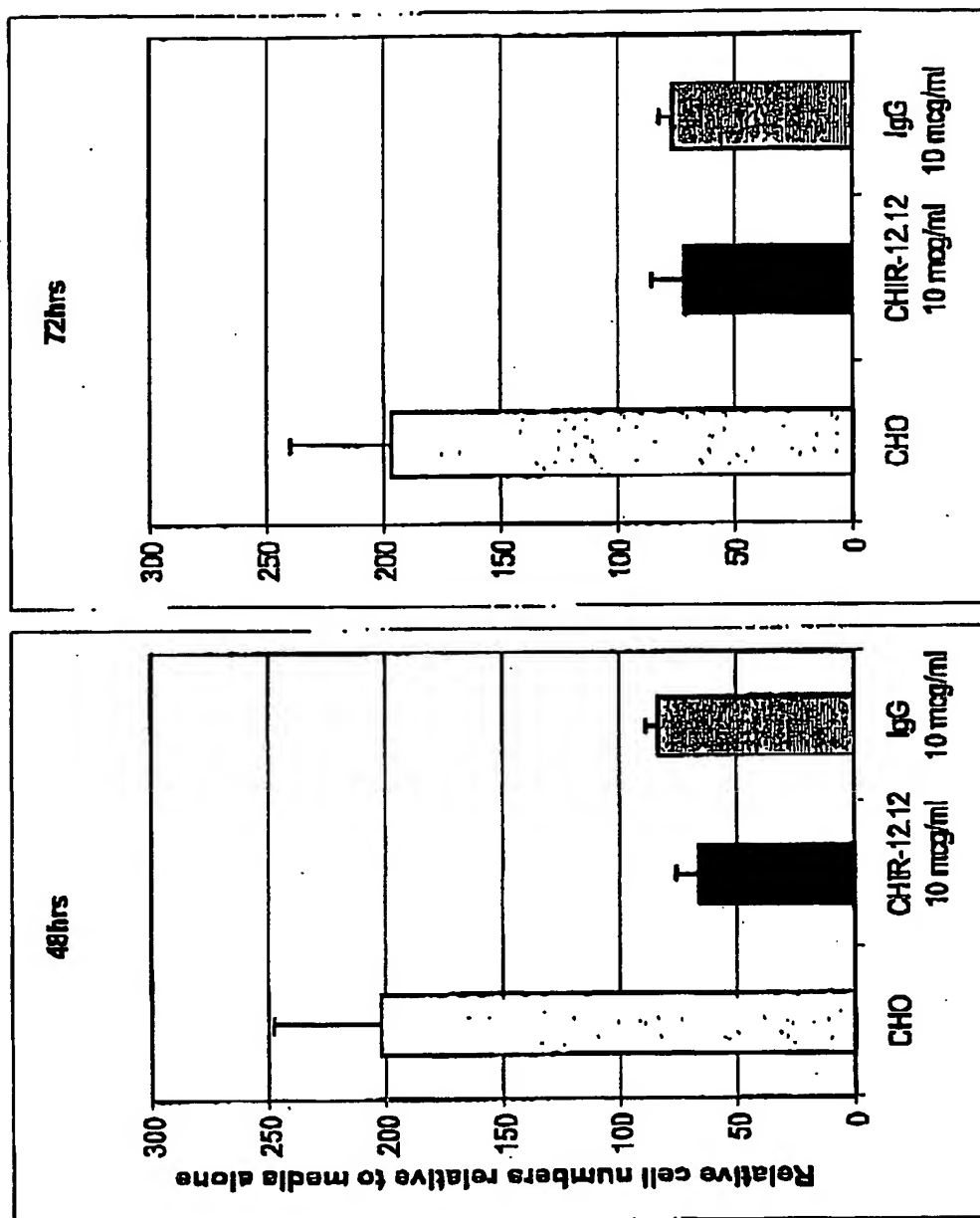


FIGURE 6B

FIGURE 6A

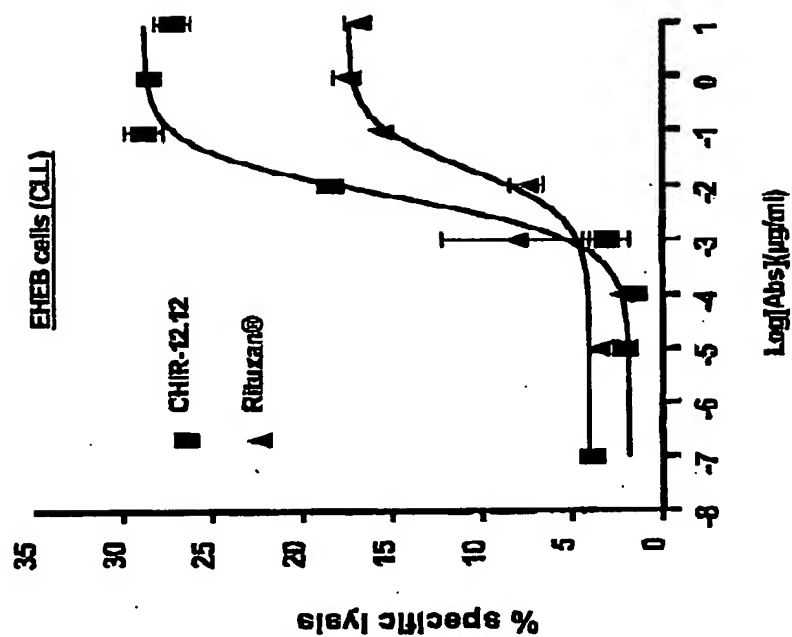


FIGURE 7

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FIGURE 8